

Cassini Radio Science

**Data Management
&
Team Website**

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General

- **Data Management at Radio Science Systems Group level**

Raw data of all types received by RSSG and delivered to investigators

- **Data Management at Radio Science Team level**

Investigators receive and process data files

- **Data Archiving by RSSG**

Not required in PDS standard. Typically archived in original format.

- **Data Archiving by RST**

Investigators are required to archive raw data files with PDS

Investigators may archive reduced science data with PDS

Summary of Simpson's Approach

Every piece of "data" to be archived

Archiving starts at front end

Archiving is an integral part of data flow and helps you remain organized

Radio Science Data Manager

We propose the formal creation of the function Cassini Radio Science Data Manager

- Member of RSSG - single point of contact
- Work on behalf of RSSG and RST
- Report to RSSG supervisor and RST Team Leader
- Develop comprehensive plan for Cassini data management
- Keeps us all organized
- Saves us all money by reducing duplication of effort
- Helps all meet deadlines and commitment to archive
- Track all OIA, SIS, PDS labels
- Function as liaison to PDS Radio Science "node" and interface with R. Simpson
- Start at front end - now
- Make archiving integral part of data management, not an afterthought
- Participate in national level discussions/negotiations as PDS evolves institutionally
- Possibly work in multi-mission capacity if other project contribute to funding
- Needs to understand and create software if necessary - technical position

Can only succeed if team cooperates

Funding issue

Cassini Archive Plan

PDS archiving requires meticulous documentation including instrument description, etc.

This will force creating documents that are required for other use - synergy with Task

Radio Science Data Management plan to be consistent with Project document 699-068
Cassini / Huygens program Archive Plan for Science Data

ITAR-consistent

Archiving also includes:

Meta-data

- Templates for: instrument, dataset, reference, personnel
- Ancillary data

Documentation

Algorithms and Software

Cruise data archiving to be completed no later than SOI + 1 year

Forces us to put system in place for tour data

Task will finalize a complete list of all data types (OIA, SIS) by August and will become official project plan.

Cassini Radio Science Team Website

External, internationally accessible website

Hosted on a JPL workstation (e.g., rodan)

Cleared through JPL document review process and consistent with ITAR

Maintained by a JPL person designated by Team (e.g., Asmar)

Name options: **cassini-radioscience.jpl.nasa.gov** **cassini-rss.jpl.nasa.gov** ?

radioscience.jpl.nasa.gov is already taken

Comparable JPL-based facility instrument: cassini-radar.jpl.nasa.gov

Will animate the logo

Will have animation of gravitational wave

Watermark background

Contents

Science: Cassini Radio Science Objectives and brief investigation description

The Team: short biographies and pictures

Publications: plans, schedules, official documents

Tutorials: Radio Science 101

Instrument: description of spacecraft and ground station instrumentation

Outreach: Educational material

Meetings: schedule, agendas, etc

Links: interesting websites

JPL Internal Only: not considered published material, limited access